Monoclonal Anti-Dengue Virus Type 4 Envelope Protein, Clone E103 (produced *in vitro*)

Catalog No. NR-15536

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Antibody Class: IgG2cκ
Mouse monoclonal antibody prepared against the envelope protein of dengue virus type 4 (DEN-4) was purified from clone E103 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63Ag8.653 mouse myeloma cells with immunized mouse splenocytes. The clone E103 antibody is reported to bind to domain I/II (DI/II) in the envelope protein.[1]

Material Provided:
Each vial of NR-15536 contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:
NR-15536 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. The item should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-15536 is reactive with C6/36 cells infected with DEN-4, D85-019 (BEI Resources NR-3804) in indirect immunofluorescence assays. See Certificate of Analysis for details. The antibody is reported to be type-specific and to react with DEN-4 DI/II expressed on yeast cells.[1]

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Dengue Virus Type 4 Envelope Protein, Clone E103 (produced *in vitro*), NR-15536."

Biosafety Level: 1
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:
1. Sukupolvi-Petty, S., et al. "Functional Analysis of Antibodies against Dengue Virus Type 4 Reveals Strain-Dependent Epitope Exposure that Impacts Neutralization and Protection." J. Virol. 87 (2013): 8826-8842. PubMed: 23785205.

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